


























MEDICAL LABORATORY SCIENCE, B.S.







 - General Education Course

 - Milestone course: a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

Major

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at <https://www.marshall.edu/gened/>.

Code	Title	Credit Hours
Core Curriculum		
<i>Core 1: Critical Thinking</i>		
FYS 100	First Yr Sem Critical Thinking	3
CLS 105 	Medical-Lab Terminology (CT)	3
SOC 200  	Introductory Sociology (CT)	3
<i>Core 2</i>		
ENG 101  	Beginning Composition	3
ENG 201 	Advanced Composition	3
CMM 103 	Fund Speech-Communication	3
MTH 130 	College Algebra	3
BSC 228  	Human Physiology	4
Core II Humanities (WI)		
SOC 200  	Introductory Sociology (CT) (MC, WI)	3
Core II Fine Arts		
<i>Additional University Requirements</i>		
Writing Intensive (Core II Humanities)		3
Writing Intensive (SOC 200 WI)		3
SOC 200 	Introductory Sociology (CT) (Multicultural or International)	3
CLS 468 	Clinical Lab Research (Capstone)	3
Major-Specific		
CHM 211  	Principles of Chemistry I	3
CHM 217  	Principles of Chem Lab I	2
CLS 105 	Medical-Lab Terminology (CT)	3
CHM 212 	Principles Chemistry II	3
CHM 218 	Principles of Chem Lab II	2
BSC 227	Human Anatomy	4
CLS 200 	Clinical Biochemistry	4
CLS 230	Clinical Hematology	4
CLS 210 	Clinical Immunohematology	4
CLS 220	Clinical Microbiology	4
CLS 255 	Clinical Lab Problems	3
CLS 270	Clin Practicum Hematology (15 Week Hospital Based Practicum)	3

CLS 271	Clin Practicum Chemistry (15 Week Hospital Based Practicum)	3
CLS 272	Clin Pract Immunohematol (15 Week Hospital Based Practicum)	3
CLS 273	Clin Pract Microbiology (15 Week Hospital Based Practicum)	3
CHM 327 	Intro Organic Chemistry	3
ECN 200	Survey of Economics	3
or ECN 250	Principles Microeconomics	
STA 225  	Introductory Statistics (CT)	3
CLS 310 	Clin Immun & Mol Diag	3
CLS 320	Advanced Topics in CLS	3
CLS 400	Adv Clinical Chemistry	2
CLS 410 	Adv Clin Immunohematology	2
CLS 420	Adv Clinical Microbiology	2
CLS 430	Adv Clinical Hematology	3
CLS 460	Clinical Lab Mgt and Educ	3
CLS 464	Lab Instrumen Inform Sys	3
CLS 466	Diagnostic Physiology	3
CLS 472	Adv CLS Clinical Practicum I	1-3
CLS 473	Adv CLS Clinical Practicum II	1-3
CLS 468 	Clinical Lab Research (Capstone)	3
CLS 499	Seminar in Lab Medicine	2

Major Information

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Course offerings and course attributes are subject to change semesters. Please consult each semester's schedule of courses for availability and attributes.
- The MLT and BS-MLS programs are fully accredited by the National Accrediting Agency for Clinical Laboratory Sciences. Students who complete CLS programs through Marshall University will be eligible for national certification examinations.
- Medical Laboratory Technology Students complete the associate degree, graduate then progress into the Bachelor of Medical Laboratory Science.
- MLS online students from other institutions must have completed an AAS in MLT from a NAACLS accredited program and will be required to fulfill the core curriculum requirements through a combination of transfer credits and MU courses; each student will be evaluated on an individual basis.
- 15-week hospital-based clinical practicum sequence Summer or Fall prior to beginning online MLS classes.